Student administration system

I as a student:

* Am registered on a degree
  + 1-year length program
    - Each program has a 6-digit program identifier
    - Program title
    - 6 modules
      * 5-digit code
      * Module title
      * An assessment may be shared across more than 1 module
      * Some core, others optional
      * 2 degrees programs may not have the same set core modules
      * 1 or more assessment in each (mark is <=100)
        + Result = Pass if (>=50)
        + Result = pass compensation if (<=50 but >=45)
        + Result = fail if (<45)
        + Result = undefined if (no mark for any assessment in that module)
      * Overall mark for modules (<=100)
    - Overall program mark as integer percentage
      * Program is pass if (>=50)
      * Distinction if (>=70)
      * Fail if (<50)
  + 2-year length program
    - 12 modules
      * See above
  + 3-Year length program?
    - 18 modules
      * See above
  + Each program has a 6 digit program identifier with a program title
* Member of a particular student cohort (set of students registered for a degree in a given academic year)
* Have an ID (year+6 unique digits)

3 layers,

1 – business logic, 2 – data storage, 3 - user interface.

The business logic should have an API and the user-interface should access the business logic only through this API.